NEODECANOIC ACID

1. CORRECTIVE RESPONSE ACTIONS
   1.1 Personal Protective Equipment: When contact is likely wear long sleeves, chemical resistant gloves, and chemical goggles. Where contact may occur wear safety glasses with side shields. Where overexposure by inhalation may occur, wear approved respirator.
   1.2 Symptoms Following Exposure: Inhalation: Use proper respiratory protection. Remove the victim from the exposure. Administer artificial respiration if breathing stops. Keep at rest. Call for prompt medical attention. INGESTION: If conscious, induce vomiting, get prompt medical attention. If unconscious, do not give anything by mouth. SKIN: Wash with large amount of water. Use soap if available. EYES: Immediately flush with large amounts of water. Get prompt medical attention.
   1.3 Fire: Combustible. POISONOUS GASES MAY BE PRODUCED IN FIRE. Extinguish with dry chemical, alcohol foam, or CO2 and/or water sprays. Use water spray to cool fire exposed surfaces and to protect personnel.
   1.4 Explosion: Not pertinent.

2. CHEMICAL DESIGNATIONS
   2.1 CG Compatibility Group: 4: Organic acids.
   2.2 Formula: C(CH3)12COOH
   2.3 IMO/UN Designation: UN1760
   2.4 DOT ID No.: Not listed
   2.5 CAS Registry No.: 51377-20-8
   2.6 NAERG Guide No.: Not listed
   2.7 Standard Industrial Trade Classification: 51077

3. HEALTH HAZARDS
   3.1 Personal Protective Equipment: When contact is likely wear long sleeves, chemical resistant gloves, and chemical goggles. Where contact may occur wear safety glasses with side shields. Where overexposure by inhalation may occur, wear approved respirator.
   3.2 Symptoms Following Exposure: Inhalation: Use proper respiratory protection. Remove the victim from the exposure. Administer artificial respiration if breathing stops. Keep at rest. Call for prompt medical attention. INGESTION: If conscious, induce vomiting, get prompt medical attention. If unconscious, do not give anything by mouth. SKIN: Wash with large amount of water. Use soap if available. EYES: Immediately flush with large amounts of water. Get prompt medical attention.
   3.3 Health Problems:
      3.3.1 Liquid or Solid Characteristics:
      3.3.2 Odor Threshold:
      3.3.3 Toxicity by Inhalation:
      3.3.4 Toxicity by Inhalation:
      3.3.5 Chronic Toxicity:
      3.3.6 Vapor (Gas) Irritant Characteristics:
      3.3.7 Lethal Dose (LD): Not listed.
      3.3.8 OSHA PEL-TWA:
      3.3.9 OSHA PEL-STEL:
      3.3.10 OSHA PEL:
      3.3.11 EPA AEL:

4. FIRE HAZARDS
   4.1 Flash Point: 201°F C.C.
   4.2 Flammable Limits in Air: Currently not available
   4.3 Fire Extinguishing Agents: Water spray, alcohol foam or dry chemical.
   4.4 Fire Extinguishing Agents Not to Be Used: Currently not available
   4.5 Special Hazards of Combustion Products: Flammable toxic gas may be released, if thermally decomposed.
   4.6 Behavior in Fire: Currently not available
   4.7 Auto Ignition Temperature: Currently not available
   4.8 Electrical Hazards: Currently not available
   4.9 Burning Rate: Currently not available
   4.10 Adiabatic Flame Temperature: Currently not available
   4.11 Stoichiometric Air to Fuel Ratio: 6.6:1 (calc.)
   4.12 Flame Temperature: Currently not available
   4.13 Combustion Molar Ratio (Reactant to Product): 20.0 (calc.)
   4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed

5. CHEMICAL REACTIVITY
   5.1 Reactivity with Water: No reaction
   5.2 Reactivity with Common Materials: May corrode metals.
   5.3 Stability During Transport: Stable
   5.4 Neutralizing Agents for Acids and Caustics: Sodium bicarbonate or lime.
   5.5 Polymerization: Will not occur
   5.6 Inhibitor of Polymerization: Not pertinent.

6. WATER POLLUTION
   6.1 Aquatic Toxicity:
   6.2 Waterfish Toxicity:
   6.3 Biological Oxygen Demand (BOD):
   6.4 Food Chain Concentration Potential:
   6.5 GESAMP Hazard Profile:
      6.5.1 Bioaccumulation:
      6.5.2 Damage to living resources:
      6.5.3 Human Oral hazard:
      6.5.4 Human Contact hazard:

7. SHIPPING INFORMATION
   7.1 Grades of Purity: 79-100%
   7.2 Storage Temperature: Ambient
   7.3 Inert Atmosphere: No requirement
   7.4 Venting: Open
   7.5 IMO Pollution Category: C
   7.6 Ship Type: 2
   7.7 Barge Hull Type: Currently not available

8. HAZARD CLASSIFICATIONS
   8.1 49 CFR Category: Not listed.
   8.2 49 CFR Class: Not pertinent.
   8.3 49 CFR Package Group: Not listed.
   8.4 Marine Pollutant: No
   8.5 NFPA Hazard Classification: Not listed
   8.6 EPA Reportable Quantity: Not listed.
   8.7 EPA Pollution Category: C
   8.8 RODA Waste Number: Not listed
   8.9 EPA FWPCA List: Not listed

9. PHYSICAL & CHEMICAL PROPERTIES
   9.1 Physical State at 15° C and 1 atm: Liquid
   9.2 Molecular Weight: 172.27
   9.3 Boiling Point at 1 atm: 492-494°F = 250-256.7°C = 523.2-528.9 K
   9.4 Freezing Point: < -104°F = -40°C = -313.2°K
   9.5 Critical Temperature: Currently not available
   9.6 Critical Pressure: Currently not available
   9.7 Specific Gravity: 0.92
   9.8 Liquid Surface Tension: Currently not available
   9.9 Liquid Interfacial Tension: Currently not available
   9.10 Vapor (Gas) Specific Gravity: 6.0
   9.11 Ratio of Specific Heats of Vapor (Gas): Currently not available
   9.12 Latent Heat of Vaporization: Currently not available
   9.13 Heat of Combustion: Currently not available
   9.14 Heat of Decomposition: Currently not available
   9.15 Heat of Solution: Currently not available
   9.16 Heat of Polymerization: Currently not available
   9.17 Heat of Fusion: Currently not available
   9.18 Limiting Value: Currently not available
   9.19 Reid Vapor Pressure: Currently not available

NOTES
### NEODECANOIC ACID

#### Table of Properties

<table>
<thead>
<tr>
<th>9.20 SATURATED LIQUID DENSITY</th>
<th>9.21 LIQUID HEAT CAPACITY</th>
<th>9.22 LIQUID THERMAL CONDUCTIVITY</th>
<th>9.23 LIQUID VISCOSITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature (degrees F)</td>
<td>Pounds per cubic foot</td>
<td>Temperature (degrees F)</td>
<td>British thermal unit per pound-F</td>
</tr>
<tr>
<td>CURRENTLY NOT AVAILABLE</td>
<td></td>
<td></td>
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<th>9.24 SOLUBILITY IN WATER</th>
<th>9.25 SATURATED VAPOR PRESSURE</th>
<th>9.26 SATURATED VAPOR DENSITY</th>
<th>9.27 IDEAL GAS HEAT CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature (degrees F)</td>
<td>Pounds per 100 pounds of water</td>
<td>Temperature (degrees F)</td>
<td>Pounds per square inch</td>
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<tr>
<td>N E G I L E</td>
<td>284</td>
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<tr>
<td>L</td>
<td>367</td>
<td>1.929</td>
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JUNE 1999